

Claims

1. Method for detecting a radio coverage in a multicellular mobile radio system with a plurality of base stations (BS1 to BS9) which are connected to an evaluation unit (AE),
5 characterized in that
all base stations are switched consecutively into a measuring operating mode, whereby a relevant field strength (FS1 to FS4, FS6 to FS9) of locally adjacent base stations which are
10 operating in a normal operating mode (BS1 to BS4, BS6 to BS9) is measured,
the base station (BS5) switched into the measuring operating mode in each case is synchronized with the base stations (BS1 to BS4, BS6 to BS9) operating in normal mode, whereby a
15 quality of the synchronicity is measured, and
the field strength data measured in each case and the measured quality of the synchronicity is sent to the evaluation unit (AE) and is evaluated there,
2. Method in accordance with claim 1,
20 characterized in that
the radio coverage detection is undertaken in cycles, with a current evaluation result being compared with at least one previous evaluation result.
3. Method as claimed in one of the claims 1 or 2,
25 characterized in that
the evaluation unit (AE) controls the base stations automatically and evaluates the measured field strength data automatically.
4. Method as claimed in one of the claims 1 to 3,
30 characterized in that,
the measured field strength data features a base station

identifier.

5. Method as claimed in one of the claims 1 to 4,
characterized in that,
the evaluation unit (AE) modifies the mobile radio system
5 depending on the evaluation result.

6. Method as claimed in one of the claims 1 to 5,
characterized in that,
the evaluation unit (AE) creates field strength maps for
determining the positions of mobile units.

10 7. Method as claimed in one of the claims 1 to 6,
characterized in that,
the multicellular mobile radio system is designed in
accordance with the DECT standard.

8. Arrangement for detecting a radio coverage in a
15 multicellular mobile radio system with a plurality of base
stations which are connected to an evaluation unit (AE),
characterized in that,
at least one base station (BS5) is operated in a measuring
operating mode, in which a relevant field strength (FS1 to
20 FS4, FS6 to FS9) of locally adjacent base stations which are
being operated in a normal operating mode is measured,
the base station (BS5) operated in the measuring operating
mode in each case is synchronized with the base stations (BS1
to BS4, BS6 to BS9) operated in normal mode, and
25 the evaluation unit (AE) receives and evaluates the field
strength data measured in each case and the measured quality
of the synchronicity.

9. Arrangement as claimed in claim 8,
characterized in that
30 the radio coverage detection is undertaken in cycles, with a
current evaluation result being compared with at least one

previous evaluation result.

10. Arrangement as claimed in one of the claims 8 or 9,
characterized in that,
the measured field strength data has a base station
5 identification.

11. Arrangement as claimed in one of the claims 8 to 10,
characterized in that,
the evaluation unit (AE) modifies the mobile radio system
depending on the evaluation result.

10 12. Arrangement as claimed in one of the claims 8 to 11,
characterized in that,
the evaluation unit (AE) creates field strength maps for
determining the positions of mobile units.

15 13. Arrangement as claimed in one of the claims 8 to 12,
characterized in that,
the multicellular mobile radio system is designed in
accordance with the DECT standard.